

www.jsps.go.jp/english/e-plaza/e-sdialogue/
SCIENCE

'12 → '13



JSPS

Japan
Society for the
Promotion of Science

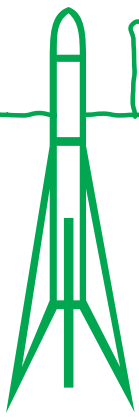
DIALOGUE



Welcome JSPS Postdocs !

Young International Researchers Introduce
Japanese Students to the Realm of Science

Interlinking the World through Science



Gives students an opportunity to learn about countries around the world

Familiarizes students with cutting-edge science in a variety of fields

Gives students a feeling for English's various functions as a global language

Facilitates science communication between international scientists and Japanese school students

Gives students knowledge of research activities

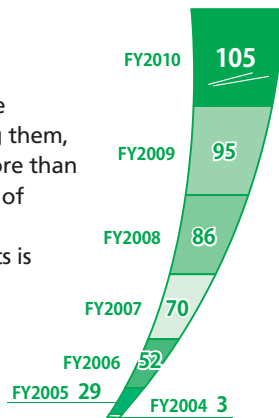
Strengthens international understanding and promotes international exchange

What's Science Dialogue?

Many young researchers from countries around the world come to Japan under JSPS's fellowship programs to conduct research in leading-edge scientific fields at Japanese research institutions. Under the Science Dialogue program, these talented researchers are invited to volunteer to give lectures in English at high schools in the vicinity of their host institutions.

Data

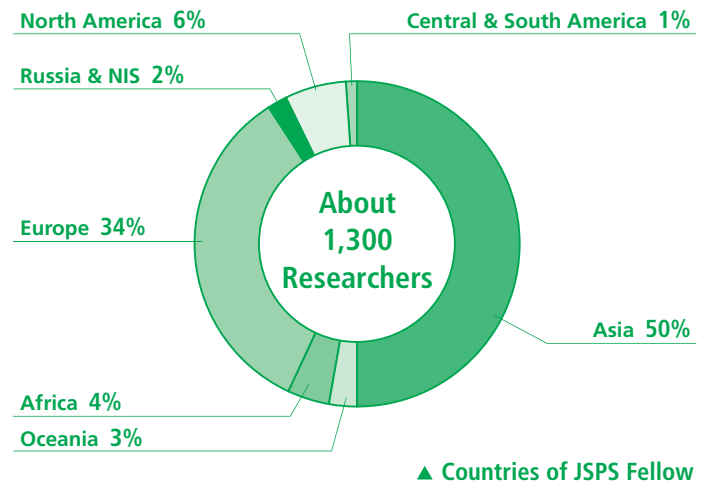
- Across Japan, **over 100** schools have participated in the program. Among them, about **70%** have hosted lectures more than one time, bespeaking the high level of program satisfaction.
- The number of participating students is about **20,000** to date.



Transition in Number of Lectures ▶

Who are JSPS Fellows?

The lecturers are highly talented young international researchers invited to conduct research in Japan funded by JSPS Fellowship programs.



Science Dialogue

— Linking students to an expanded world via English
Bringing the future to the classroom

Comments from Participants

From Students (original in Japanese)

- ❖ It was fun to step into a world I had never entered before.
- ❖ There were many discoveries such as, "This is how I express it in English."
- ❖ The lecture about the difference in perspectives was very interesting.

From School Teachers (original in Japanese)

- ❖ As this program is called a "dialogue," students learned in an interactive way, unlike a one-way lecture.
- ❖ This was a great opportunity that affected quite a lot of students in terms of thinking about career options.

From Lecturers (sic)

- ❖ It is such a beautiful program that I feel pity I only attended it three times.
- ❖ I think this is a wonderful way for visiting researchers to interact with younger students and local communities and try to learn more about Japanese culture.
- ❖ This activity gives the possibility to live Japan in a way that is normally not accessible to foreigners. Moreover I consider it an honor to talk about my research to young student that can possibly find inspiration from it.

Tips for Success

To JSPS Fellows (Lecturers)

- Before participating in this program, please obtain the consent of your host researcher.
- Using a lot of figures, photos, and Japanese key words in your materials and slides will help to improve the students' understanding of your lecture. Utilizing experiments, specimens, models or other observational devices will help perk the students' curiosity.
- If you are accompanied by your colleague, it is good to discuss the content of the lecture and its procedure with him/her beforehand, as well as with the teacher of the school.
- In giving your lecture, many past fellows advise you to use easy words and short sentences, and the most important thing is to speak SLOWLY.



Example of the Lecture



Lecturer Dr. Giuseppe Lorusso (RIKEN) from Italy assisted by Mr. Kenta Yoshinaga at Tokyo University of Science

Date July 2011

School Ibaraki Prefectural Namiki Secondary School

Lecture The Origin of the Chemical Elements in the Universe

The lecture begins with a virtual tour of Italy consistent of several pictures and video clips. The tour starts at the very north of Italy and moves to the south.

The second part of the lecture summarizes briefly the main key steps of the Italian history starting from the prehistorical age to today.

The third part of the lecture is indeed the most extended. First, the lecture introduces the chemical composition of the Earth showing the many elements that makes up the Earth such as Oxygen, Carbon, Calcium, Iron, Gold, Uranium, etc.

Then using video clips of the Hubble-space telescope the chemical composition outside the Earth is discussed, discovering that Hydrogen and Helium compose 99% of the entire Universe. This discussion sets the stage for the important question which is the focus of my research in Japan: "what is the origin of the chemical element in the Universe?" These elements are produced in stars by means of a series of nuclear reactions which generate the energy that makes stars shine, and have as final products the elements that in a later stages are ejected by the stars and eventually will form planets like our Earth.



How to go about participating in the Program?

*JSPS issues a continuous call for applications from JSPS Fellows. Please use the contact information.

*Please be sure to read the Guideline on our website below before participation.

- **Communication:** JSPS gives the teacher in charge of the program at the participating school the JSPS Fellow's contact information. The teacher contacts the Fellow after which they plan together the content of the lecture session.
- **Assistant:** The Fellow may be accompanied by his/her colleague who can explain the essence of the lecture in Japanese or help the experiments.
- **Travel:** The cost of the Fellow and the accompanying person's travel to the school from the host institution will be covered by JSPS in accordance with its regulations. If approved in advance by JSPS, lodging on the night before or on the night of the lecture may be covered.
- **Lecture Materials:** JSPS will pay for such items needed in preparing and delivering the lecture (consumable supplies, telecommunications & delivery fees, printing costs, miscellaneous expenses) in an amount up to ¥50,000.
- **Submissions:** Activity report and Questionnaire
*As these materials will be posted on JSPS's website or publications, please be careful to properly annotate any copyrighted materials.

Visit our website for further information

Science Dialogue Website (English)

<http://www.jsps.go.jp/english/e-plaza/e-sdialogue/>

• You can see upcoming lectures and past lectures, and download the following materials.

- ✓ Application Form
- ✓ Report and Questionnaire Form



Contact us

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Japan Society for the Promotion of Science (JSPS)

As an independent administrative institution under the jurisdiction of Japan's Ministry of Education and Science, JSPS carries out programs to fund research, foster young researchers, promote scientific exchange with other countries, and advance university reform. As Japan's leading science funding agency, JSPS has been allocated a budget of approximately ¥335 billion for FY 2011.